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| <br><b>INFORMATION DISCLOSURE STATEMENT</b><br><small>PTO-1449</small> |  | ATTY. DOCKET NO.<br>1488.1890003        | APPLICATION NO.<br>10/662,429 |
|  |  | FIRST NAMED INVENTOR<br>Steven M. Ruben |                               |
|  |  | FILING DATE<br>September 16, 2003       | ART UNIT<br>1644              |

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| EXAMINER INITIAL | DOCUMENT NUMBER     | DATE       | NAME              | CLASS | SUB-CLASS | FILING DATE |
|------------------|---------------------|------------|-------------------|-------|-----------|-------------|
| PNT              | AA1 5,763,223       | 06/09/1998 | Wiley, et al.     |       |           | 06/25/1996  |
|                  | AB1 6,030,945       | 02/29/2000 | Ashkenazi         |       |           | 01/09/1996  |
|                  | AC1 6,046,048       | 04/04/2000 | Ashkenazi, et al. |       |           | 01/08/1997  |
|                  | AD1 6,284,236       | 09/04/2001 | Wiley, et al.     |       |           | 05/26/1999  |
|                  | AE1 6,444,640       | 09/03/2002 | Nagane, et al.    |       |           | 09/30/1999  |
|                  | AF1 6,521,228       | 02/18/2003 | Wiley, et al.     |       |           | 04/02/2001  |
|                  | AG1 6,740,739       | 05/25/2004 | Ashkenazi, et al. |       |           | 06/26/2000  |
|                  | AH1 6,746,668       | 06/08/2004 | Ashkenazi         |       |           | 08/21/2001  |
|                  | AI1 2004/0047864    | 03/11/2004 | Ruben             |       |           | 09/16/2003  |
|                  | AJ1 2004/0048340    | 03/11/2004 | Ruben             |       |           | 09/16/2003  |
| ↓                | AK1 2004/0052788 A1 | 03/18/2004 | Wiley, et al.     |       |           | 09/02/2003  |

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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----------------|------------|---------|-------|-----------|-------------|
| PNT              | AL1 WO 97/25428 | 07/17/1997 | WIPO    |       |           | Yes         |
| PNT              | AM1 WO 97/01633 | 01/16/1997 | WIPO    |       |           | No          |
|                  | AN1             |            |         |       |           | Yes         |
|                  | AO1             |            |         |       |           | No          |
|                  | AP1             |            |         |       |           | Yes         |
|                  |                 |            |         |       |           | No          |

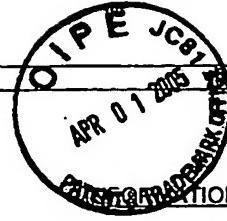
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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| PNT | AR | 1 | Bell, G.I., et al., "A molecular inventory of human pancreatic islets: Sequence analysis of 1000 cDNA clones," <i>Hum. Mol. Genet.</i> 2:1793-1798, (GenBank Acces. No. T10524) (1993) |
|     | AS | 1 | Cascino et al., "Three functional soluble forms of the human apoptosis-inducing Fas molecule are produced by alternative splicing," <i>J. Immun.</i> 154:2706-2713 (1995)              |
| ↓   | AT | 1 | Genexpress., <i>The Genexpress cDNA Program</i> , (GenBank Acces. No. Z36726) (1994)   |

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| AA               |                 |      |      |       |           |             |
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| AC               |                 |      |      |       |           |             |
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| AF               |                 |      |      |       |           |             |
| AG               |                 |      |      |       |           |             |
| AH               |                 |      |      |       |           |             |
| AI               |                 |      |      |       |           |             |
| AJ               |                 |      |      |       |           |             |
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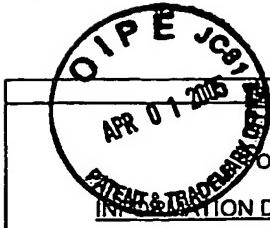
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| AL2              |                 |      |         |       |           | Yes         |
| AM2              |                 |      |         |       |           | No          |
| AN2              |                 |      |         |       |           | Yes         |
| AO2              |                 |      |         |       |           | No          |
| AP2              |                 |      |         |       |           | Yes         |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|---|----|---|---|
|  | AR | 2 | George, et al., "Macromolecular sequencing of synthesis", ed. D.H. Schles, New York: Alan K. List, Inc.<br>pp129-149 (1988) |
|   |    |   |   |
|   | AS | 2 | Hillier, L., et al., <i>The WashU-Merck EST Project</i> , (GenBank Acces. No. T82085) (1995)                                |
| ↓   | AT | 2 | Hillier, L., et al., <i>The WashU-Merck EST Project</i> , (GenBank Acces. No. T81066) (1995)                                |

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|          |           | <i>6/22/05</i>  |

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| AL3              |                 |      |         |       |           | Yes         |
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| AO3              |                 |      |         |       |           | No          |
| AP3              |                 |      |         |       |           | Yes         |
|                  |                 |      |         |       |           | No          |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |   |  |
|-----|----|---|--|
| PnK | AR | 3 | Hillier, L., et al., <i>The WashU-Merck EST Project</i> , (GenBank Acces. No. T90422) (1995)                                     |
|     | AS | 3 | Hillier, L., et al., <i>The WashU-Merck EST Project</i> , (GenBank Acces. No. R31020) (1995)                                     |
| ↓   | AT | 3 | Marshall, et al., "Gene therapy's growing pains," <i>Science</i> 269:1050-1055, Am. Assoc. for the Advancement of Science (1995) |

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|                  | AL4 |                 |      |         |       |           | Yes         |
|                  | AM  |                 |      |         |       |           | No          |
|                  | AN  |                 |      |         |       |           | Yes         |
|                  | AO  |                 |      |         |       |           | No          |
|                  | AP  |                 |      |         |       |           | Yes         |
|                  |     |                 |      |         |       |           | No          |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|-------------|----|---|--|
| <i>Pitt</i> | AR | 4 | Pan, G., et al., "The receptor for the cytotoxic ligand TRAIL," <i>Science</i> 276:111-113, Am. Assoc. for the Advancement of Science (1997)   |
|             | AS | 4 | Papoff et al., "An N-terminal domain shared by Fas/Apo-1 (CD95) soluble variants prevents cell death in vitro," <i>J. Immun.</i> 156:4622-4630 (1996)  |
|             | AT | 4 | Pitti, R.M., et al., "Induction of apoptosis by Apo-2 ligand, a new member of the tumor necrosis factor cytokine family," <i>J. Biological Chem.</i> 271:12687-12690, American Soc. for Biochem. and Molecular Bio. (1996) |

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| EXAMINER   | <i>T. N. X.</i> | DATE CONSIDERED | <i>6/12/03</i> |
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| AG                    |  |                 |      |      |       |           |             |
| AH                    |  |                 |      |      |       |           |             |
| AI                    |  |                 |      |      |       |           |             |
| AJ                    |  |                 |      |      |       |           |             |
| AK                    |  |                 |      |      |       |           |             |

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|------------------|--|-----------------|------|---------|-------|-----------|-------------|
| AL               |  |                 |      |         |       |           | Yes         |
| AM               |  |                 |      |         |       |           | No          |
| AN               |  |                 |      |         |       |           | Yes         |
| AO               |  |                 |      |         |       |           | No          |
| AP               |  |                 |      |         |       |           | Yes         |

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|     |    |   |   |
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| PJK | AR | 5 | Suda, T., et al., "Molecular cloning and expression of the Fas ligand, a novel member of the tumor necrosis factor family," <i>Cell</i> 75:1169-1178, Cell Press (1993) |
| PJK | AS | 5 | Wiley, S.R., et al., "Identification and characterization of a new member of the TNF family that induces apoptosis," <i>Immun.</i> 3:679-682, Cell Press (1995)         |
|     | AT |   |   |

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| EXAMINER   | PJK 26 | DATE CONSIDERED | 6/18/05 |
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|                  | AA |                 |      |      |       |           |             |
|                  | AB |                 |      |      |       |           |             |
|                  | AC |                 |      |      |       |           |             |
|                  | AD |                 |      |      |       |           |             |
|                  | AE |                 |      |      |       |           |             |
|                  | AF |                 |      |      |       |           |             |
|                  | AG |                 |      |      |       |           |             |
|                  | AH |                 |      |      |       |           |             |
|                  | AI |                 |      |      |       |           |             |
|                  | AJ |                 |      |      |       |           |             |
|                  | AK |                 |      |      |       |           |             |

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|------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                  | AL |                 |      |         |       |           | Yes         |
|                  | AM |                 |      |         |       |           | No          |
|                  | AN |                 |      |         |       |           | Yes         |
|                  | AO |                 |      |         |       |           | No          |
|                  | AP |                 |      |         |       |           | Yes         |
|                  |    |                 |      |         |       |           | No          |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|             |    |   |   |  |
|-------------|----|---|---|--|
|             | AR |   |   |  |
|             | AS |   |   |  |
| <i>P.M.</i> | AT | S | Campbell, et al., "General properties and applications of monoclonal antibodies," in <i>Monoclonal Antibody Technology</i> , Elsevier Science Publisher, New York, NY , pp. 1-32 (1984) |  |

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|                  | AL |                 |       |         |       |           | Yes         |
|                  | AM |                 |       |         |       |           | No          |
|                  | AN |                 |       |         |       |           | Yes         |
|                  | AO |                 |       |         |       |           | No          |
|                  | AP |                 |       |         |       |           | Yes         |
|                  |    |                 |       |         |       |           | No          |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|           |    |   |   |
|-----------|----|---|---|
| <i>PK</i> | AR | 6 | Harlow, <i>et al.</i> , "Immunizing animals," in <i>Antibodies: A Laboratory Manual</i> , Cold Spring Harbor Laboratory publication, Cold Spring Harbor, NY, pp. 92-94, 116-117, and 626-629 (1988)   |
|           | AS | 6 | Krieg, A., <i>et al.</i> , "TRAIL- $\beta$ and TRAIL- $\gamma$ : two novel splice variants of the human TNF-related apoptosis-inducing ligand (TRAIL) without apoptotic potential," <i>Br. J. Cancer</i> 88:918-927, Nature Publishing Group (March 2003) |
| <i>↓</i>  | AT | 6 | Stryer, L., "Levels of Structure in Protein Architecture," in <i>Biochemistry</i> , 3 <sup>rd</sup> ed., W.H. Freeman Co., New York, NY, pp.31-34 (1988)  |

|          |           |                 |
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|  |    |                 | APPLICANT<br><b>Steven M. Ruben</b>  |         |                                      |           |             |
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|  | AA |                 |  |         |                                      |           |             |
|  | AB |                 |  |         |                                      |           |             |
|  | AC |                 |  |         |                                      |           |             |
|  | AD |                 |  |         |                                      |           |             |
|  | AE |                 |  |         |                                      |           |             |
|  | AF |                 |  |         |                                      |           |             |
|  | AG |                 |  |         |                                      |           |             |
|  | AH |                 |  |         |                                      |           |             |
|  | AI |                 |  |         |                                      |           |             |
|  | AJ |                 |  |         |                                      |           |             |
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|  | AL |                 |  |         |                                      |           | Yes         |
|  | AM |                 |  |         |                                      |           | No          |
|  | AN |                 |  |         |                                      |           | Yes         |
|  | AO |                 |  |         |                                      |           | No          |
|  | AP |                 |  |         |                                      |           | Yes         |
|  |    |                 |  |         |                                      |           | No          |
| <b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>  |    |                 |  |         |                                      |           |             |
|  | AR | 7               | Trabzuni, D., et al., "Functional analysis of tumour necrosis factor- $\alpha$ -related apoptosis-inducing ligand (TRAIL): cysteine-230 plays a critical role in the homotrimerization and biological activity of this novel tumorcidal cytokine," <i>Biochem. J.</i> 350:505-510, Portland Press (September 2000) |         |                                      |           |             |
|  | AS | 7               | U.S. Patent Application No. 09/912,292, Ruben, S.M., filed July 26, 2001, pages 1-75, 94 (pages 1 and 2 partially redacted), portion of Table 2, SEQ ID NO. 50232 (NOT PUBLISHED)  |         |                                      |           |             |
|  | AT | 7               | U.S. Patent Application No. 09/912,293, Ruben, S.M., filed July 26, 2001, pages 1-75, 94 (pages 1 and 2 partially redacted), portion of Table 2, SEQ ID NOS. 67931 and 115315 (NOT PUBLISHED)  |         |                                      |           |             |
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|                  | AI |                 |      |      |       |           |             |
|                  | AJ |                 |      |      |       |           |             |
|                  | AK |                 |      |      |       |           |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                  | AL |                 |      |         |       |           | Yes         |
|                  | AM |                 |      |         |       |           | No          |
|                  | AN |                 |      |         |       |           | Yes         |
|                  | AO |                 |      |         |       |           | No          |
|                  | AP |                 |      |         |       |           | Yes         |
|                  |    |                 |      |         |       |           | No          |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|             |    |   |  |
|-------------|----|---|--|
| <i>P.M.</i> | AR | 8 | U.S. Patent Application No. 08/816,981, Ruben, S.M., filed March 13, 1997 (NOT PUBLISHED)  |
|             | AS | 8 | Declaration of Carl F. Ware, submitted in Patent Interference No. 105,077, Ruben v. Wiley, 10 pages, signed November 8, 2004 (NOT PUBLISHED) |
| <i>↓</i>    | AT | 8 | Deposition of Carl Ware, Ph.D., for Patent Interference No. 105,077, Ruben v. Wiley, 111 pages, taken December 9, 2004 (NOT PUBLISHED)       |

|  |                |                 |                |
|--|----------------|-----------------|----------------|
| EXAMINER   | <i>M.J. J.</i> | DATE CONSIDERED | <i>6/16/05</i> |
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|   |  |  |                                      |
|---|--|--|--------------------------------------|
| FORM PTO-1449<br><b>FIRST SUPPLEMENTAL<br/>INFORMATION DISCLOSURE STATEMENT</b> |  | ATTY. DOCKET NO.<br><b>1488.189003/EJH/SAC</b> | APPLICATION NO.<br><b>10/662,429</b> |
|   |  | APPLICANT<br><b>Steven M. Ruben</b>            |                                      |
|   |  | FILING DATE<br><b>September 16, 2003</b>       | ART UNIT<br><b>1644</b>              |

**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|----|-----------------|------|------|-------|-----------|-------------|
|                  | AA |                 |      |      |       |           |             |
|                  | AB |                 |      |      |       |           |             |
|                  | AC |                 |      |      |       |           |             |
|                  | AD |                 |      |      |       |           |             |
|                  | AE |                 |      |      |       |           |             |
|                  | AF |                 |      |      |       |           |             |
|                  | AG |                 |      |      |       |           |             |
|                  | AH |                 |      |      |       |           |             |
|                  | AI |                 |      |      |       |           |             |
|                  | AJ |                 |      |      |       |           |             |
|                  | AK |                 |      |      |       |           |             |

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|------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                  | AL |                 |      |         |       |           | Yes<br>No   |
|                  | AM |                 |      |         |       |           | Yes<br>No   |
|                  | AN |                 |      |         |       |           | Yes<br>No   |
|                  | AO |                 |      |         |       |           | Yes<br>No   |
|                  | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|           |    |   |   |
|-----------|----|---|---|
| <i>PK</i> | AR | 9 | Declaration of Nigel Killeen, submitted in Patent Interference No. 105,077, Ruben v. Wiley, 8 pages, signed December 15, 2004 (NOT PUBLISHED) |
|           | AS | 9 | Deposition of Nigel Patrick Killeen, for Patent Interference No. 105,077, Ruben v. Wiley, 15 pages, taken January 18, 2005 (NOT PUBLISHED)    |
|           | AT | 9 | Declaration of Mark L. Hayman, submitted in Patent Interference No. 105,077, Ruben v. Wiley, 5 pages, signed August 27, 2004 (NOT PUBLISHED)  |

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*6/11/05*

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| FORM PTO-1449<br><br><u>FIRST SUPPLEMENTAL</u><br><u>INFORMATION DISCLOSURE STATEMENT</u> |  | ATTY. DOCKET No.<br>1488.1890003/EJH/SAC | APPLICATION NO.<br>10/662,429 |
|   |  | APPLICANT<br>Steven M. Ruben             |                               |
|   |  | FILING DATE<br>September 16, 2003        | ART UNIT<br>1644              |

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| EXAMINER INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|                  | AA |                 |      |      |       |           |             |
|                  | AB |                 |      |      |       |           |             |
|                  | AC |                 |      |      |       |           |             |
|                  | AD |                 |      |      |       |           |             |
|                  | AE |                 |      |      |       |           |             |
|                  | AF |                 |      |      |       |           |             |
|                  | AG |                 |      |      |       |           |             |
|                  | AH |                 |      |      |       |           |             |
|                  | AI |                 |      |      |       |           |             |
|                  | AJ |                 |      |      |       |           |             |
|                  | AK |                 |      |      |       |           |             |

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|                  | AM |                 |      |         |       |           | No          |
|                  | AN |                 |      |         |       |           | Yes         |
|                  | AO |                 |      |         |       |           | No          |
|                  | AP |                 |      |         |       |           | Yes         |
|                  |    |                 |      |         |       |           | No          |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|              |    |    |  |
|--------------|----|----|--|
| <i>P. J.</i> | AR | 10 | Second Declaration of Mark L. Hayman, submitted in Patent Interference No. 105,077, Ruben v. Wiley, 7 pages, signed September 15, 2004 (NOT PUBLISHED) |
|              |    |    |  |
|              | AS | 10 | Third Declaration of Mark L. Hayman, submitted in Patent Interference No. 105,077, Ruben v. Wiley, 8 pages, signed November 5, 2004 (NOT PUBLISHED)    |
|              |    |    |  |
|              | AT | 10 | Deposition of Mark Hayman, for Patent Interference No. 105,077, Ruben v. Wiley, 116 pages, taken November 30, 2004 (NOT PUBLISHED)                     |
|              |    |    |  |

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